

Purchasing Receipts

Plex 10/3/2018 3:39 PM *dart.Tollis.Andrew*



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

**PURCHASE ORDER
PO041131**

Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

PO No: PO041131

PO Date: 9/25/18

Due Date: 10/1/18

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

E-MAILED
SEP 26 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: 2% 10 Net 30

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	180796	97787A661		Expandable Pin AS PER DWG D4711 REV. D	Firmed	-	10/1/18	12 Ea	0 Ea	12 Ea	\$114.68/Ea	\$1,376.16

Line Item Note: 09094-QADC416 SAME AS 97787A661

2		MT-NYLON 6-B3.000X4.000-W	8733K243	CAST NYLON BAR 3" X 4" receive ft	Firmed	-	10/1/18	4 ft	0 ft	4 ft	\$94.00/ft	\$376.00
3		1376N22	3 ft	Multipurpose Neoprene Rubber Strip, Adhesive-Back, 2" x 36", 1/32" Thick	Firmed	-	10/1/18	6 ft	0 ft	6 ft	\$4.35/ft	\$26.10

Line Item Note: 2 pcs of 3 ft

4		1376N23	3 ft	Multipurpose Neoprene Rubber Strip, Adhesive-Back, 2" x 36", 1/16" Thick	Firmed	-	10/1/18	6 ft	0 ft	6 ft	\$4.543/ft	\$27.26
								6 ft	0 ft	6 ft		

Line Item Note: 2 pcs of 3 ft

5		C45-3-4-1	98410A110 100/pk	Retaining Ring	Firmed	-	10/1/18	200 Ea	0 Ea	200 Ea	\$0.13/Ea	\$26.00
6		4.5NR-50	98381A544 25/pk	Lifter Pin	Firmed	-	10/1/18	25 Ea	0 Ea	25 Ea	\$0.2836/Ea	\$7.09

25 x OCT 01 2018



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO041131

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
7 A		8695K716	4' lenght	Polyurethane Rod 1.00" DIA. 80A (Hard) Abrasion - resistant Polyurethane Rubber Rod 1" Diameter	Firmed	-	10/1/18	16 ft	16 ft 0 ft	16 ft	\$18.04/ft	\$288.64

Grand Total: \$2,127.25

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A007 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION MAINTAINED BY SUPPLIER)

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENT

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Plex 9/26/18 2:45 PM dart.lavoie.chantal



Packing List

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO041131
Order Placed By
Chantal Lavoie

Page 1 of 1
09/26/2018

McMaster-Carr Number
1775594-04

Line	Product	Ordered	Shipped
2	8733K243 Cast Nylon Bar, 4" Wide, 3" Thick	4 Feet	4
7	8695K716 Abrasion-Resistant Polyurethane Rubber Rod, 48" Long, 1" Diameter, 80A Durometer	4 Each	1

Shipped separately from our New Jersey warehouse on 09/26

1	97787A661 Expanding Diameter Quick-Release Pin, 1/4" Diameter, 1" Usable Length	12 Each	4
5	98410A110 External Retaining Ring, Beryllium Copper, for 3/16" OD	2 Packs	2
7	8695K716 Abrasion-Resistant Polyurethane Rubber Rod, 48" Long, 1" Diameter, 80A Durometer	4 Each	3



200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO041131
Order Placed By
Chantal Lavoie

Page 1 of 1
09/26/2018

McMaster-Carr Number
1775594-02

Line	Product	Ordered	Shipped
7	8695K716 Abrasion-Resistant Polyurethane Rubber Rod, 48" Long, 1" Diameter, 80A Durometer	4 Each	3 Each

Shipped separately from our Cleveland warehouse on 09/26

1	97787A661 Expanding Diameter Quick-Release Pin, 1/4" Diameter, 1" Usable Length	12 Each	8
2	8733K243 Cast Nylon Bar, 4" Wide, 3" Thick	4 Feet	4
3	1376N22 Multipurpose Neoprene Rubber Strip, Adhesive-Back, with Certificate, 1/32" Thick, 50A Durometer, 2" x 36"	2 Each	2
4	1376N23 Multipurpose Neoprene Rubber Strip, Adhesive-Back, with Certificate, 1/16" Thick, 50A Durometer, 2" x 36"	2 Each	2
6	98381A544 Dowel Pin, Alloy Steel, 1/4" Diameter, 1-1/4" Long	1 Pack	1
7	8695K716 Abrasion-Resistant Polyurethane Rubber Rod, 48" Long, 1" Diameter, 80A Durometer	4 Each	1

Cast Nylon Bar, 4" Wide, 3" Thick

In stock
\$94.00 per ft.
8733K243

Nylon Plastic
6

Material	Nylon Plastic
Grade	6
Fabrication	Cast
Cross Section Shape	Rectangle
Construction	Solid
Texture	Smooth
Color	Off-White
Clarity	Opaque
Thickness	3"
Thickness Tolerance	0" to +0.025"
Tolerance Rating	Oversized
Width	4"
Width Tolerance	0" to +1/4"
Length	1 ft., 2 ft.
Backing Type	Plain
Hardness	Rockwell R100
Hardness Rating	Hard
For Use Outdoors	No
Temperature Range	-20° to 200° F
Impact Strength	0.40 ft.-lbs./in.
Impact Strength Rating	Poor
Tensile Strength	10,000 psi
Tensile Strength Rating	Excellent
Specifications Met	3-A Certified <u>ASTM D5989</u> Made of FDA Listed Material, UL 94HB
Density	0.042 lbs./cu. in.
Coefficient of Friction	0.22

Cast Nylon Bar, 4" Wide, 3" Thick McMaster-Carr	
Dielectric Strength	500V/mil
Water Absorption	0.60%
Coefficient of Thermal Expansion	5×10^{-5} in./in./°F
RoHS	Compliant

Use these cast nylon 6 sheets and bars for gears, sprockets, and wear strips. They're lightweight, stiff, and easier to machine than other types of nylon. They have a slippery surface and are an excellent insulator. This material is comparable to Nylatron and Nycast.

SPECIFICATION CONTROL DRAWING

8	7	6	5	4	3	2	1	REV.	REV.	DESCRIPTION	DATE	BY	APPROVED
								A	NEW ISSUE		17/08/23	VM	VM

PURCHASE MATERIAL:
NYLON 6 BAR
ASTM D5989
SPECIFICATION:
PART NUMBER:

MT-NYLON 6-B[H.HHH]x[W.WW]J-C
WHERE "H.HHH" = HEIGHT IN INCHES
WHERE "W.WW" = WIDTH IN INCHES
WHERE "C" = COLOR [W= WHITE] / [B= BLACK]
EG. 1/4" x 2" WHITE BAR = MT-NYLON 6-B0.250x2.000-W
TOLERANCES PER MANUFACTURER SPECIFICATIONS

C	D	E	F	G	H	I	J	K	L	M	N	O	P	

A	B	C
DART	AEROSPACE	Homebush, NSW, Australia
NYLON 6 BAR		
DRAW NO.	MT-NYLON 6-B	REV
DESIGN BY:	VM.08/02/2017	REV. 1
DRAWN BY:	VM.08/02/2017	REV. 1
CHECKED:	VM.08/02/2017	REV. 1
M.G APPROVED:	DP.09/01/2017	REV. 1
CO APPROVED:	ID.09/01/2017	REV. 1
APPROVED:	VM.08/02/2017	REV. 1
DATE:	31/07/2017	SHEET 1 OF 1
SCALE:	NOT TO SCALE	WEIGHT: N/A
COPYRIGHT © 2017 BY DART AEROSPACE LTD.		
NOTICE: This drawing is the property of DART Aerospace & is to be returned to DART Aerospace upon completion of the project or when no longer required.		
DRAFT: A DRAFT drawing is one which has not been checked by the responsible authority.		

2

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-NYLON 6-B3.000x4.000-W PO / BATCH NO.: P0041131/S115713
 DATE: 18/10/03

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 4ft
 QUANTITY INSPECTED: 4ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 3.000"
 THICKNESS RECEIVED: 3.000"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<u>Y</u> <u>N</u>	
CORRECT FINISH	<u>Y</u> <u>N</u>	
CORROSION	<u>Y</u> <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> <u>N</u>	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u> <u>N</u>	<i>ASTM D5989</i>
CORRECT THICKNESS	<u>Y</u> <u>N</u>	
PHOTO REQUIRED	<u>Y</u> <u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> <u>N</u>	<i>P0041131</i>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> <u>N</u>	
CORRECT M# ON THE MATERIAL	<u>Y</u> <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<u>Y</u> <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<u>Y</u> <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/10/03</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Abrasion-Resistant Polyurethane Rubber Rod

48" Long, 1" Diameter



\$72.16 Each
8695K716

Shape	Rod
Material	Polyurethane
Texture	Smooth
Diameter	1"
Diameter Tolerance	-0.025" to +0.025"
Length	48"
Length Tolerance	-0.25" to +0.25"
For Use Outdoors	Yes
Temperature Range	-20° to 200° F
Color	Black
Durometer	40A (Medium Soft), 60A (Medium Hard), 75D (Extra Hard), 80A (Hard), 90A (Extra Hard), 95A (Extra Hard)
Durometer Tolerance	-5 to +5
RoHS	Compliant

Stronger than natural rubber, these polyurethane rods combine the shock-absorbing qualities of rubber with the tear resistance of plastic. Use them to seal narrow spaces such as channels.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 8695K716
 DATE: 18/10/03

PO / BATCH NO.: PO 041131/5115714

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 16ft
 QUANTITY INSPECTED: 16ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000"
 THICKNESS RECEIVED: 1.000"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	PO 041131
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AK</u>	SIGNED OFF BY: _____
DATE: <u>18/10/03</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in